

MR2707-3

Serial Number: 09/990,273

Reply to Office Action dated 3 November 2005

**AMENDMENTS TO THE DRAWINGS**

The attached Drawing sheet includes a change to Fig. 5, and replaces the original Drawing having Fig. 5 thereon. In each of Fig. 5, mislabeling of the graphical illustrations in FIGS 5(B) and 5(C) have been corrected.

Attachment: 1 Replacement Sheet.

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**REMARKS**

This case has been carefully reviewed and analyzed in view of the Final Official Action dated 3 November 2005. Responsive to the rejections made in the Official Action, Claims 1, and 7 have been amended to clarify the combination of elements which form the invention of the subject Patent Application. Claims 2-6 and 8-11 were previously cancelled.

In the Official Action, the Examiner objected to the Drawings and more specifically to FIGS. 5B and 5C. The Examiner stated that output signal being represented only corresponded to one of the two outputs represented in the label OUT1/OUT2. Accordingly, a corrected drawing of FIGS. 5A and 5B with the labels MODE1/MODE2 and OUT1/OUT2 replaced with the appropriate mode and output labels are submitted herewith.

In the Official Action, the Examiner rejected Claims 1, 7 and 12 under 35 U.S.C. § 112, first paragraph, as being directed to subject matter not supported by the Specification. The Examiner stated that the limitation of the carrier being "modulated" by the data signal was not supported by the Specification.

Claims 1 and 7 have been amended to remove the term "modulated" therefrom. Thus, it is now believed that the Claims are fully supported by the Specification and define the invention sufficiently for one skilled in the art to make and use the invention.

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The invention of the subject Patent Application is directed to an ultrasonic and infrared transmitter with tunable carrier frequency. As an infrared transmitter, the transmitting light emitting diode only needs one output signal having the correct frequency, no matter whether it is inverted or not. As to the ultrasonic transmitter, the ultrasonic transducer needs two output signals for operation, where one signal is inverted with respect to the other signal. Therefore, the invention of the subject Patent Application provides a simple transmitter circuit that supports both ultrasonic and light emitting transducers, that is clearly distinguishable from the prior art.

For all of the forgoing reasons, it is now believed that the subject Patent Application has been placed in condition for allowance, and such action is respectfully requested.

Respectfully submitted,  
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**CERTIFICATE OF FACSIMILE TRANSMISSION**

I hereby certify that this paper is being facsimile transmitted to the U.S. Patent and Trademark Office, Art Unit #2633, facsimile number 703-872-9306 on the date shown below.

2/2/2006  
Date

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